

05/16  
7625

Page 1 of 1

#9



OIPE

ENTERED

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/970,088

DATE: 06/14/2002  
TIME: 15:53:33

Input Set: A:\71415062.app  
Output Set: N:\CRF3\06142002\I970088.raw

3 <110> APPLICANT: GRAVEREAUX, EDWIN C.  
4 SILVER, MARCY  
5 ISNER, JEFFREY M.  
6 YOON, YOUNG-SUP  
8 <120> TITLE OF INVENTION: USE OF LYMPHANGIOGENIC AGENTS TO TREAT LYMPHATIC  
9 DISORDERS  
11 <130> FILE REFERENCE: 71417/55062  
13 <140> CURRENT APPLICATION NUMBER: 09/970,088  
14 <141> CURRENT FILING DATE: 2001-10-02  
16 <150> PRIOR APPLICATION NUMBER: 60/237,171  
17 <151> PRIOR FILING DATE: 2000-10-02  
19 <160> NUMBER OF SEQ ID NOS: 14  
21 <170> SOFTWARE: PatentIn Ver. 2.1  
23 <210> SEQ ID NO: 1  
24 <211> LENGTH: 8  
25 <212> TYPE: PRT  
26 <213> ORGANISM: Artificial Sequence  
28 <220> FEATURE:  
29 <223> OTHER INFORMATION: Description of Artificial Sequence: Illustrative  
30 peptide  
32 <400> SEQUENCE: 1  
33 Asn Val Ser Asp Ser Leu Glu Met  
34 1 5  
37 <210> SEQ ID NO: 2  
38 <211> LENGTH: 7  
39 <212> TYPE: PRT  
40 <213> ORGANISM: Artificial Sequence  
42 <220> FEATURE:  
43 <223> OTHER INFORMATION: Description of Artificial Sequence: Illustrative  
44 peptide  
46 <400> SEQUENCE: 2  
47 Trp Glu Phe Pro Arg Glu Arg  
48 1 5  
51 <210> SEQ ID NO: 3  
52 <211> LENGTH: 24  
53 <212> TYPE: DNA  
54 <213> ORGANISM: Artificial Sequence  
56 <220> FEATURE:  
57 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
58 oligonucleotide  
60 <220> FEATURE:  
61 <221> NAME/KEY: modified\_base  
62 <222> LOCATION: (18)

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/970,088

DATE: 06/14/2002  
TIME: 15:53:33

Input Set : A:\71415062.app  
Output Set: N:\CRF3\06142002\I970088.raw

63 <223> OTHER INFORMATION: A, T, C or G  
65 <400> SEQUENCE: 3  
W--> 66 aacgtgaggg actcsyntga ratg 24  
69 <210> SEQ ID NO: 4  
70 <211> LENGTH: 21  
71 <212> TYPE: DNA  
72 <213> ORGANISM: Artificial Sequence  
74 <220> FEATURE:  
75 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
76 oligonucleotide  
78 <400> SEQUENCE: 4 21  
79 cckytcyckg ggraaaytccc a  
82 <210> SEQ ID NO: 5  
83 <211> LENGTH: 21  
84 <212> TYPE: DNA  
85 <213> ORGANISM: Artificial Sequence  
87 <220> FEATURE:  
88 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer  
90 <400> SEQUENCE: 5  
91 tatggtacaa agatgagagg c 21  
94 <210> SEQ ID NO: 6  
95 <211> LENGTH: 21  
96 <212> TYPE: DNA  
97 <213> ORGANISM: Artificial Sequence  
99 <220> FEATURE:  
100 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer  
102 <400> SEQUENCE: 6  
103 acaggatttc acattgctcc t 21  
106 <210> SEQ ID NO: 7  
107 <211> LENGTH: 420  
108 <212> TYPE: DNA  
109 <213> ORGANISM: Oryctolagus cuniculus  
111 <400> SEQUENCE: 7  
112 cggcgcgggg tggccggggc acacgtgccc agcatcgat ggtacaaaaga tgagaggctg 60  
113 ctgcaagaag aatcttggat cgaccctcgcg gactcgaacc agaggctgag catccagcgc 120  
114 gtgcgcgagg aggacgcgggg ccgttatctg tgcagctgtgt gcaacgccaa gggctgcgtc 180  
115 aactcctccg ccacgcgtacg tggggaggg gccaagata gaggcagcat ggagatcg 240  
116 atcctcggtt gcaccggcgt cattgccgtt ttctttggg tcctctctt gctcatcttc 300  
117 tgtaacatga ggaggccacg ccacgcggac atcaagacgg gctacttgc catcatcatg 360  
118 gatccgggg aggtgcctct ggaggagcaa tgtgaatacc tgtcctacga cgccagccag 420  
121 <210> SEQ ID NO: 8  
122 <211> LENGTH: 420  
123 <212> TYPE: DNA  
124 <213> ORGANISM: Bos sp.  
126 <400> SEQUENCE: 8  
127 cggcgcgggg tggctggggc acacgttaccc agcatcgat ggtacaaaaga tgagaagctg 60  
128 ctggaaagaag aatcttggat cgaccctcgcg gactcgaacc agaggctgag catccagcgc 120  
129 gtgcgcgagg aggacgcgggg ccactatctg tgcagctgtgt gcaacgccaa gggctgtgtc 180  
130 aactcctctg ccacgcgtggc tggaaaggata aaggcagcat ggagatcg 240

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/970,088

DATE: 06/14/2002  
TIME: 15:53:33

Input Set : A:\71415062.app  
Output Set: N:\CRF3\06142002\I970088.raw

131 atccttgttg gcaccggagt catcgctgtc ttttctggg tcctccttct cctcatcttc 300  
132 tgtaacatga ggaggccaaac ccatgcagac atcaagactg gctacttgc catcatcatg 360  
133 gacccgggg agtgtcctt ggaggagcag tgtgaatacc tgtcctacga tgctagtcaa 420  
136 <210> SEQ ID NO: 9  
137 <211> LENGTH: 420  
138 <212> TYPE: DNA  
139 <213> ORGANISM: Homo sapiens  
141 <400> SEQUENCE: 9  
142 cagtgttgg tgccggago gcacgcgccc agcatcggt ggtacaaaga cgagaggctg 60  
143 ctggagaaaa agtctggagt cgacttggcg gactccaacc agaagcttag catccagcgc 120  
144 gtgcgcgagg agatgcggg acgctatctg tgcagcgtgt gcaacgc当地 gggctgcgtc 180  
145 aactcctccg ccacgcgtggc cgtggaaaggc tccgaggata agggcagcat ggagatcg 240  
146 atccttgtcg gtaccggcgt catcgctgtc ttcttctggg tcctccttct cctcatcttc 300  
147 tgtaacatga ggaggccggc ccacgcagac atcaagacgg gctaccgtc catcatcatg 360  
148 gacccgggg agtgtcctt ggaggagcag tgtgaatacc tgtcctacga tgccagccag 420  
151 <210> SEQ ID NO: 10  
152 <211> LENGTH: 420  
153 <212> TYPE: DNA  
154 <213> ORGANISM: Mus sp.  
156 <400> SEQUENCE: 10  
157 ccatgtggccc gcatgtggccc agtattgtgt ggtacaaaga tgaaaggctc 60  
158 ctggagaaaa agtctggaat cgacctggca gactccaatc agaggcttag catccagcgc 120  
159 gtgcgcgagg agacgcagg tcgttatctg tgcagcgtgt gcaatgc当地 gggctgcgt 180  
160 aactcctctg ccacgcgtggc agtggaaaggc tctgaagata aaggcagcat ggagattgtg 240  
161 atactcatttgc gcatgtggcgt catcgcatgtt ttcttctggg tcctccttct cctcatcttc 300  
162 tgtaacatga aaaggccctgc ccatgcagac atcaagacgg gctaccgtc catcatcatg 360  
163 gacccgggg agtgtcctt ggaggagcag tgtgaatacc tgtcctatga cgccagccag 420  
166 <210> SEQ ID NO: 11  
167 <211> LENGTH: 140  
168 <212> TYPE: PRT  
169 <213> ORGANISM: Oryctolagus cuniculus  
171 <400> SEQUENCE: 11  
172 Arg Cys Ala Val Ala Gly Ala His Val Pro Ser Ile Val Trp Tyr Lys  
173 1 5 10 15  
175 Asp Glu Arg Leu Leu Gln Glu Glu Ser Gly Ile Asp Leu Ala Asp Ser  
176 20 25 30  
178 Asn Gln Arg Leu Ser Ile Gln Arg Val Arg Glu Asp Ala Gly Arg  
179 35 40 45  
181 Tyr Leu Cys Ser Val Cys Asn Ala Lys Gly Cys Val Asn Ser Ser Ala  
182 50 55 60  
184 Ser Val Ala Val Gly Gly Ala Glu Asp Arg Gly Ser Met Glu Ile Val  
185 65 70 75 80  
187 Ile Leu Val Gly Thr Gly Val Ile Ala Val Phe Phe Trp Tyr Leu Leu  
188 85 90 95  
190 Leu Leu Ile Phe Cys Asn Met Arg Arg Pro Ala His Ala Asp Ile Lys  
191 100 105 110  
193 Thr Gly Tyr Leu Ser Ile Ile Met Asp Pro Gly Glu Val Pro Leu Glu  
194 115 120 125  
196 Glu Gln Cys Glu Tyr Leu Ser Tyr Asp Ala Ser Gln

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/970,088

DATE: 06/14/2002  
TIME: 15:53:33

Input Set : A:\71415062.app  
Output Set: N:\CRF3\06142002\I970088.raw

197 130 135 140  
200 <210> SEQ ID NO: 12  
201 <211> LENGTH: 140  
202 <212> TYPE: PRT  
203 <213> ORGANISM: Bos sp.  
205 <400> SEQUENCE: 12  
206 Arg Cys Pro Val Ala Gly Thr His Val Pro Ser Ile Val Trp Tyr Lys  
207 1 5 10 15  
209 Asp Glu Lys Leu Leu Glu Glu Ser Gly Ile Asp Leu Ala Asp Ser  
210 20 25 30  
212 Asn Gln Arg Leu Ser Ile Gln Arg Val Arg Glu Glu Asp Ala Gly His  
213 35 40 45  
215 Tyr Leu Cys Ser Val Cys Asn Ala Lys Gly Cys Val Asn Ser Ser Ala  
216 50 55 60  
218 Ser Val Ala Val Glu Gly Ser Glu Asp Lys Gly Ser Met Glu Ile Val  
219 65 70 75 80  
221 Ile Leu Val Gly Thr Gly Val Ile Ala Val Phe Phe Trp Tyr Leu Leu  
222 85 90 95  
224 Leu Leu Ile Phe Cys Asn Met Arg Arg Pro Thr His Ala Asp Ile Lys  
225 100 105 110  
227 Thr Gly Tyr Leu Ser Ile Ile Met Asp Pro Gly Glu Val Pro Leu Glu  
228 115 120 125  
230 Glu Gln Cys Glu Val Leu Ser Tyr Asp Ala Ser Gln  
231 130 135 140  
234 <210> SEQ ID NO: 13  
235 <211> LENGTH: 140  
236 <212> TYPE: PRT  
237 <213> ORGANISM: Homo sapiens  
239 <400> SEQUENCE: 13  
240 Gln Cys Leu Val Ala Gly Ala His Ala Pro Ser Ile Val Trp Tyr Lys  
241 1 5 10 15  
243 Asp Glu Arg Leu Leu Glu Glu Lys Ser Gly Val Asp Leu Ala Asp Ser  
244 20 25 30  
246 Asn Gln Lys Leu Ser Ile Gln Arg Val Arg Glu Glu Asp Ala Gly Arg  
247 35 40 45  
249 Tyr Leu Cys Ser Val Cys Asn Ala Lys Gly Cys Val Asn Ser Ser Ala  
250 50 55 60  
252 Ser Val Ala Val Glu Gly Ser Glu Asp Lys Gly Ser Met Glu Ile Val  
253 65 70 75 80  
255 Ile Leu Val Gly Thr Gly Val Ile Ala Val Phe Phe Trp Val Leu Leu  
256 85 90 95  
258 Leu Leu Ile Phe Cys Asn Met Arg Arg Pro Ala His Ala Asp Ile Lys  
259 100 105 110  
261 Thr Gly Tyr Leu Ser Ile Ile Met Asp Pro Gly Glu Val Pro Leu Glu  
262 115 120 125  
264 Glu Gln Cys Glu Val Leu Ser Tyr Asp Ala Ser Gln  
265 130 135 140  
268 <210> SEQ ID NO: 14  
269 <211> LENGTH: 140

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/970,088

DATE: 06/14/2002  
TIME: 15:53:34

Input Set : A:\71415062.app  
Output Set: N:\CRF3\06142002\I970088.raw

270 <212> TYPE: PRT  
271 <213> ORGANISM: Mus sp.  
273 <400> SEQUENCE: 14  
274 Arg Cys Pro Val Ala Gly Ala His Val Pro Ser Ile Val Trp Tyr Lys  
275 1 5 10 15  
277 Asp Glu Arg Leu Leu Glu Lys Glu Ser Gly Ile Asp Leu Ala Asp Ser  
278 20 25 30  
280 Asn Gln Arg Leu Ser Ile Gln Arg Val Arg Glu Glu Asp Ala Gly Arg  
281 35 40 45  
283 Tyr Leu Cys Ser Val Cys Asn Ala Lys Gly Cys Val Asn Ser Ser Ala  
284 50 55 60  
286 Ser Val Ala Val Glu Gly Ser Glu Asp Lys Gly Ser Met Glu Ile Val  
287 65 70 75 80  
289 Ile Leu Ile Gly Thr Gly Val Ile Ala Val Phe Phe Trp Val Leu Leu  
290 85 90 95  
292 Leu Leu Ile Phe Cys Asn Met Lys Arg Pro Ala His Ala Asp Ile Lys  
293 100 105 110  
295 Thr Gly Tyr Leu Ser Ile Ile Met Asp Pro Gly Glu Val Pro Leu Glu  
296 115 120 125  
298 Glu Gln Cys Glu Tyr Leu Ser Tyr Asp Ala Ser Gln  
299 130 135 140

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/09/970,088

DATE: 06/14/2002  
TIME: 15:53:35

Input Set : A:\71415062.app  
Output Set: N:\CRF3\06142002\I970088.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:3; N Pos. 18

**VERIFICATION SUMMARY**  
PATENT APPLICATION: US/09/970,088

DATE: 06/14/2002  
TIME: 15:53:35

Input Set : A:\71415062.app  
Output Set: N:\CRF3\06142002\I970088.raw

L:66 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0